FOREIGN PCT/US2003/

Figure 1

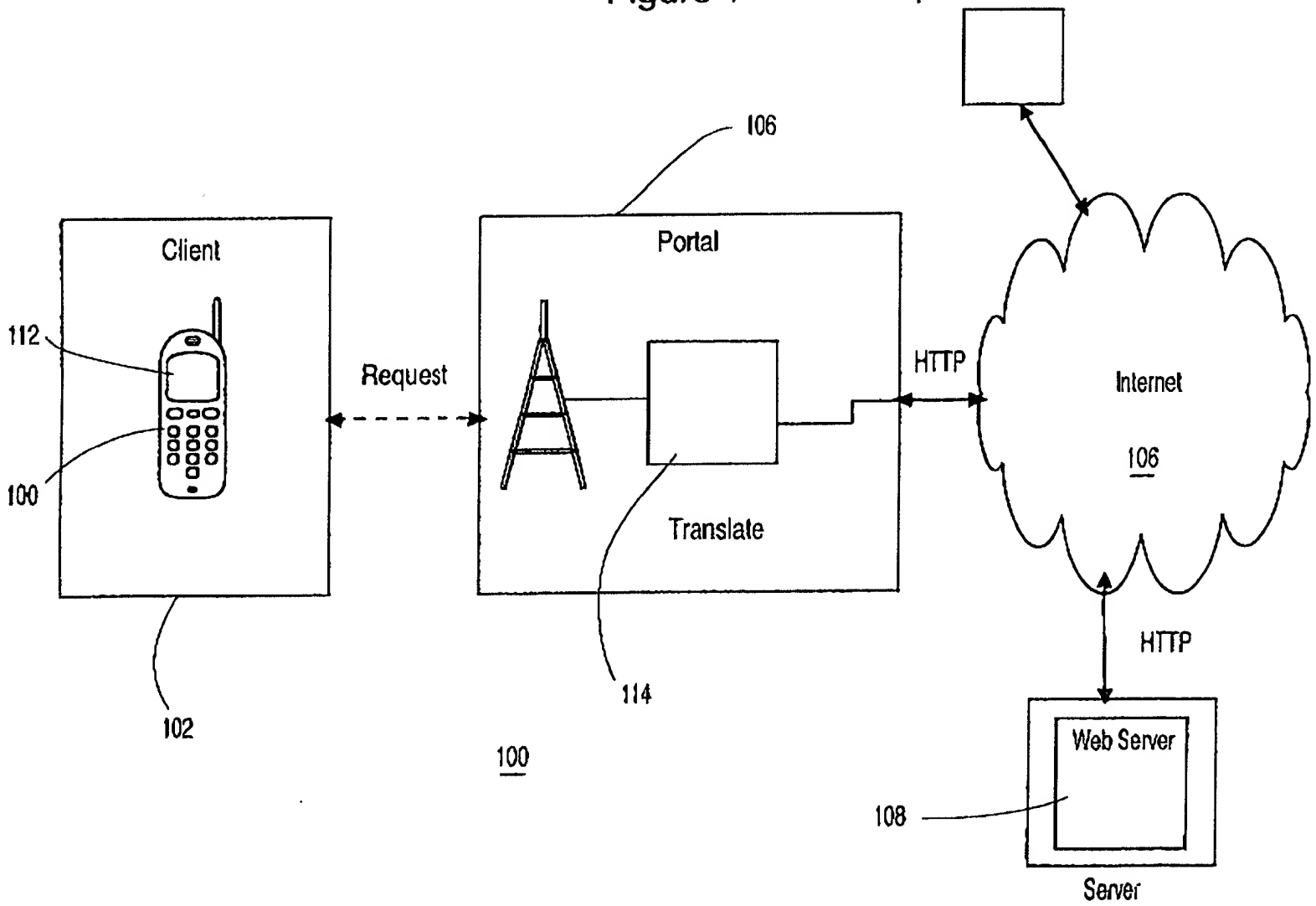
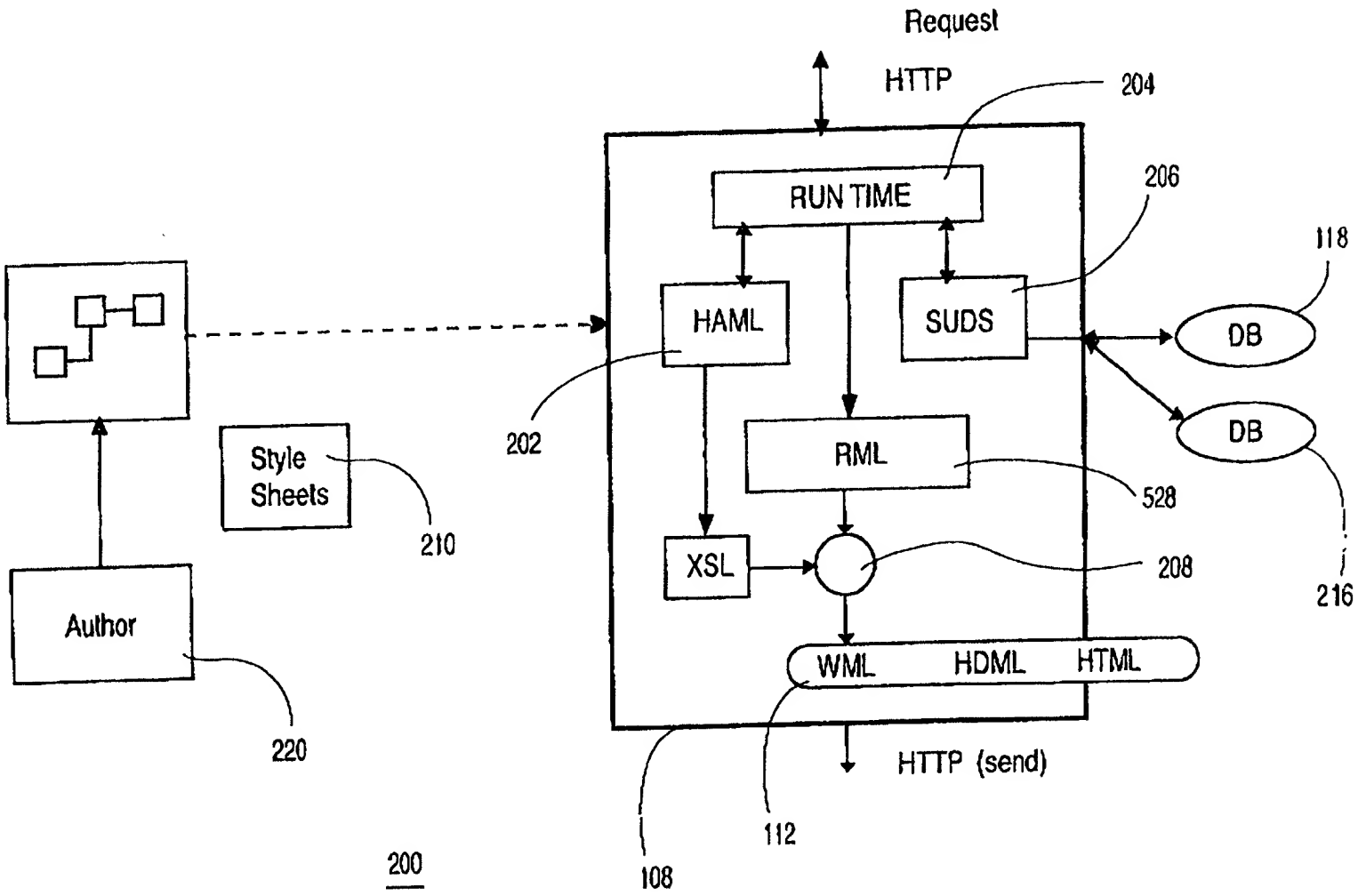
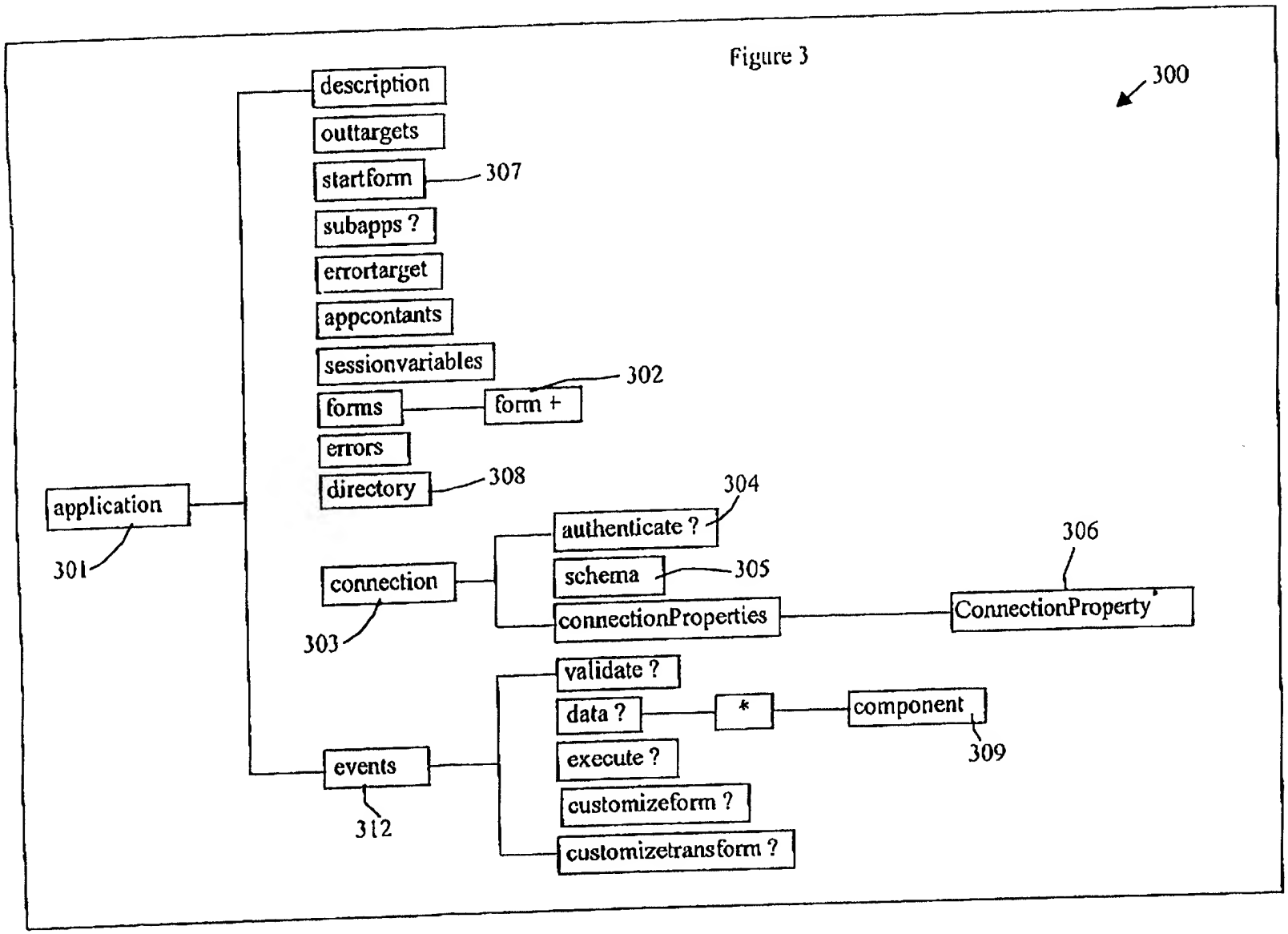


Figure 2


Request
HTTP
204
RUN TIME
206
118
HAML
SUDS
DB
202
RML
528
DB
Style Sheets
210
XSL
208
216
Author
WML
HDML
HTML
220
HTTP (send)
112
108
200

PATENT APPLICATION

Figure 3



PCT/GB2003/002560

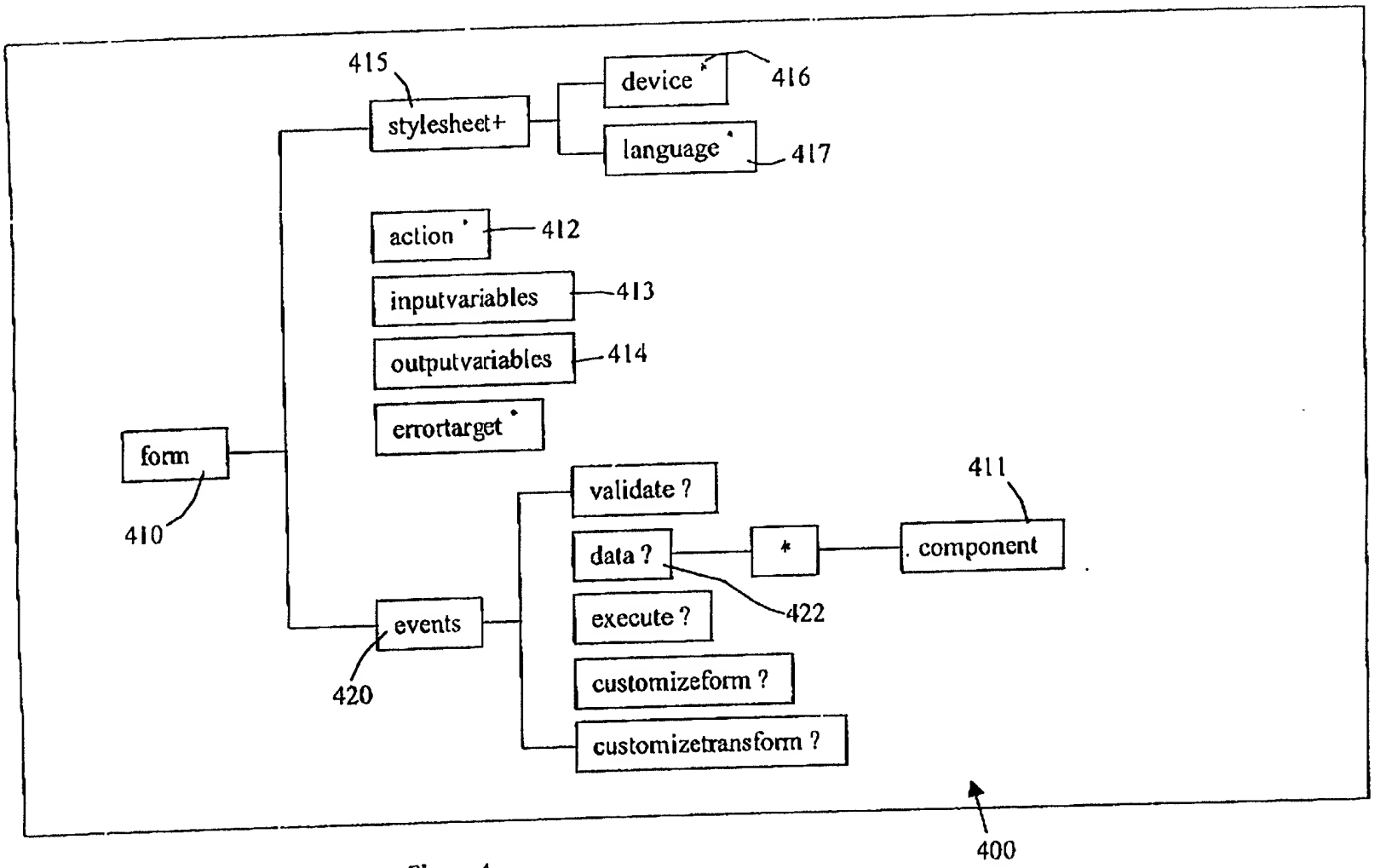



Figure 4

PATENT APPLICATION

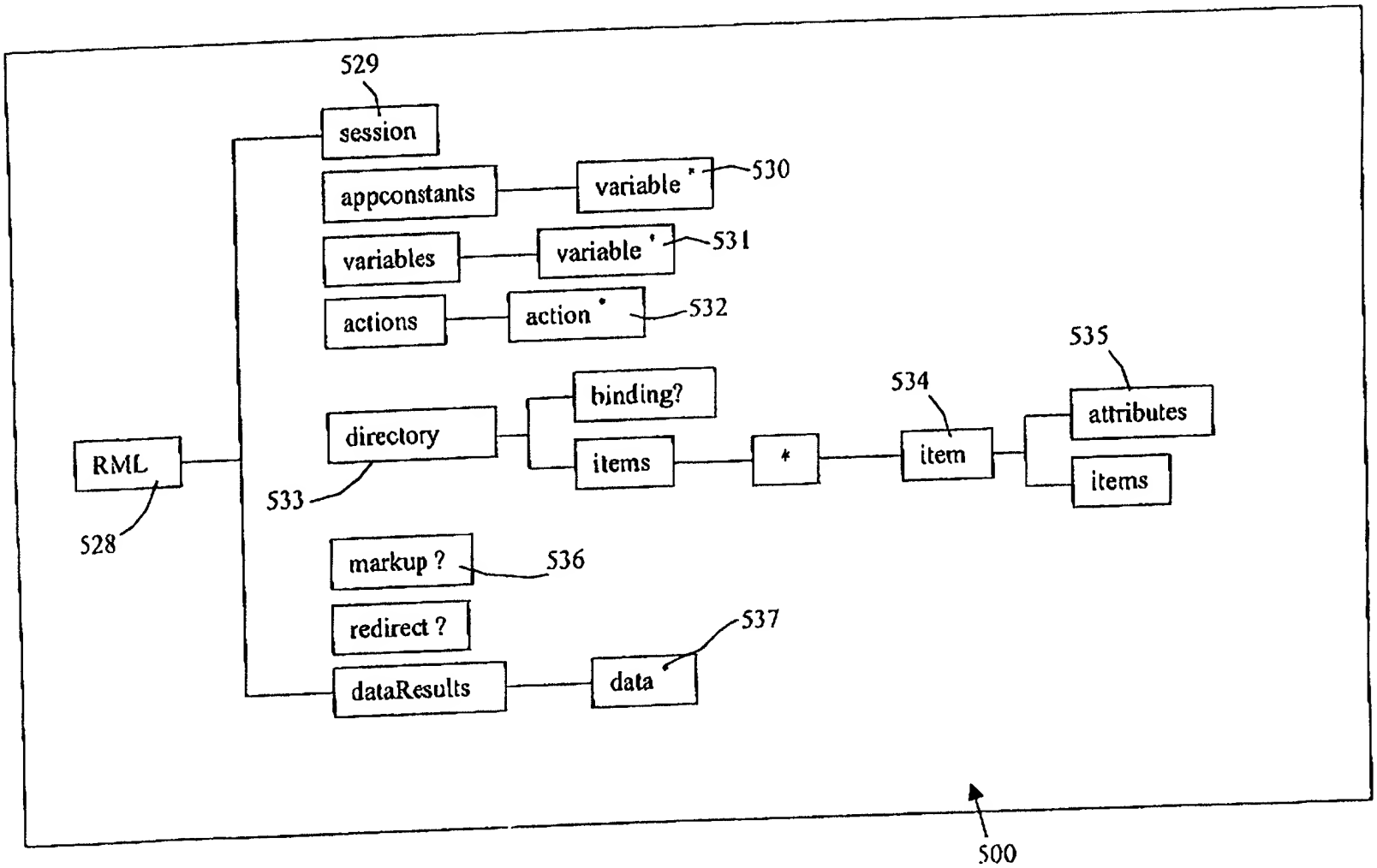
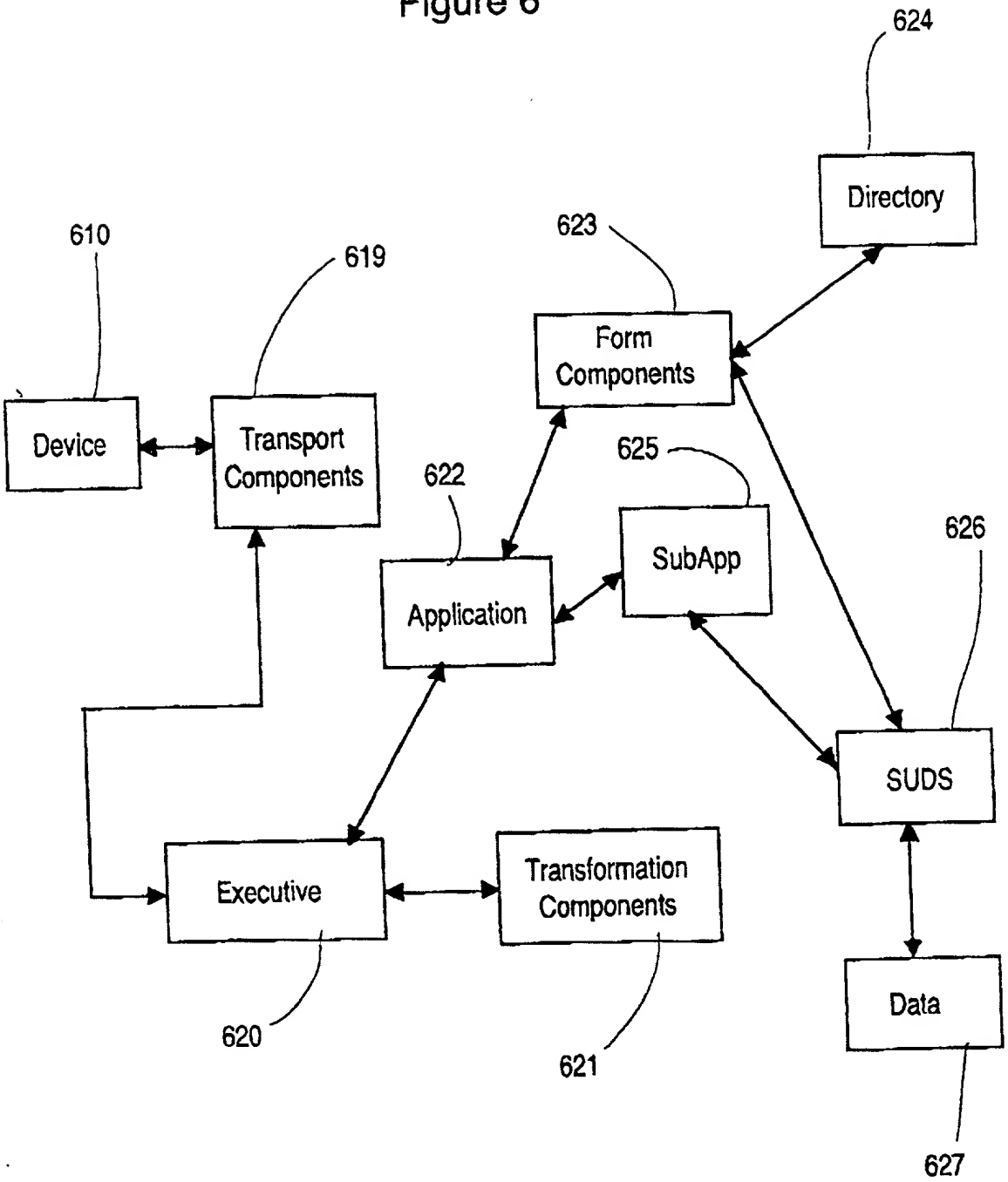



Figure 5

Figure 6


624
Directory
610
619
623
Form Components
Device
Transport Components
625
622
SubApp
626
Application
SUDS
Executive
Transformation Components
Data
620
621
627

TOETSO" 2252260

Figure 7

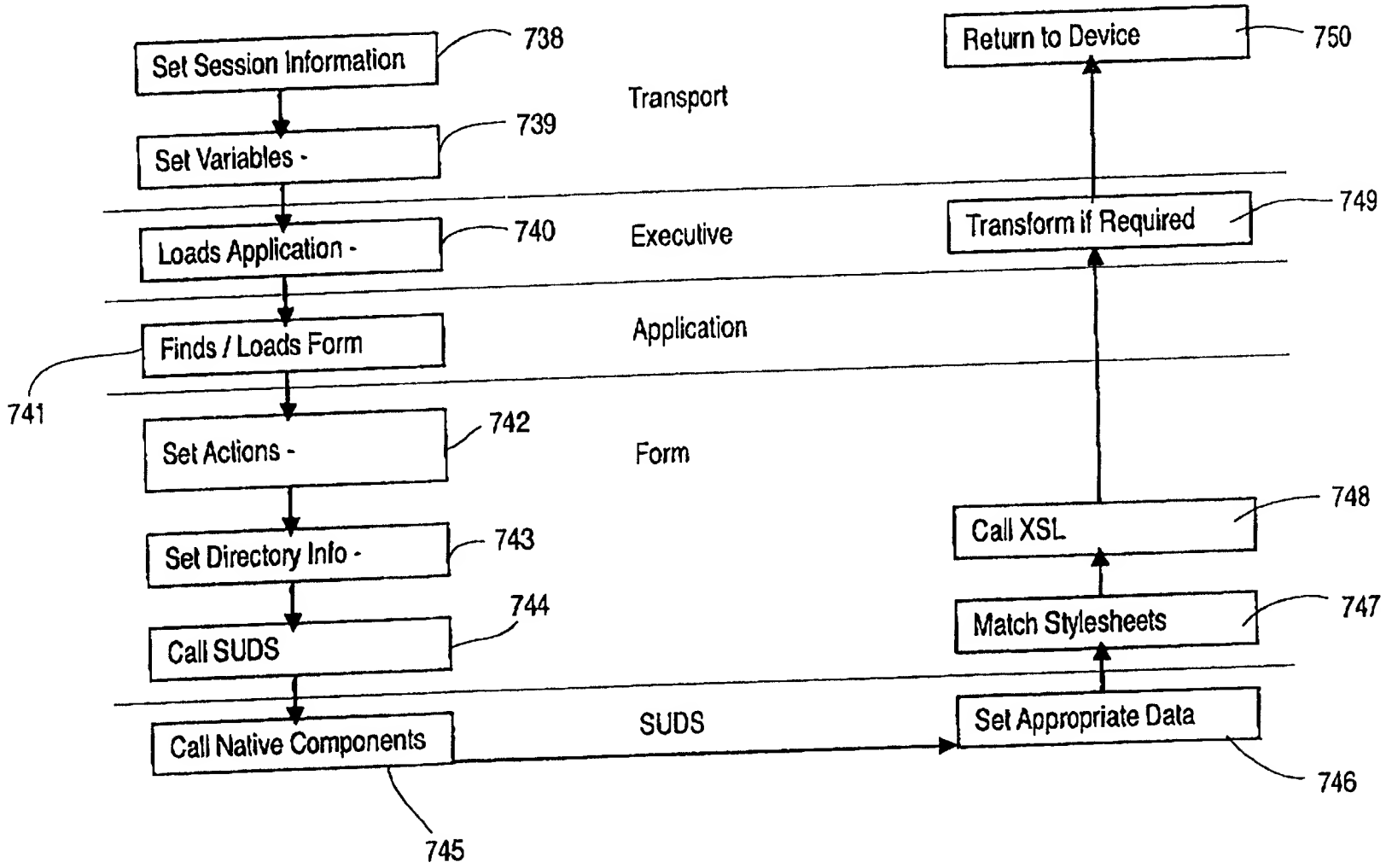
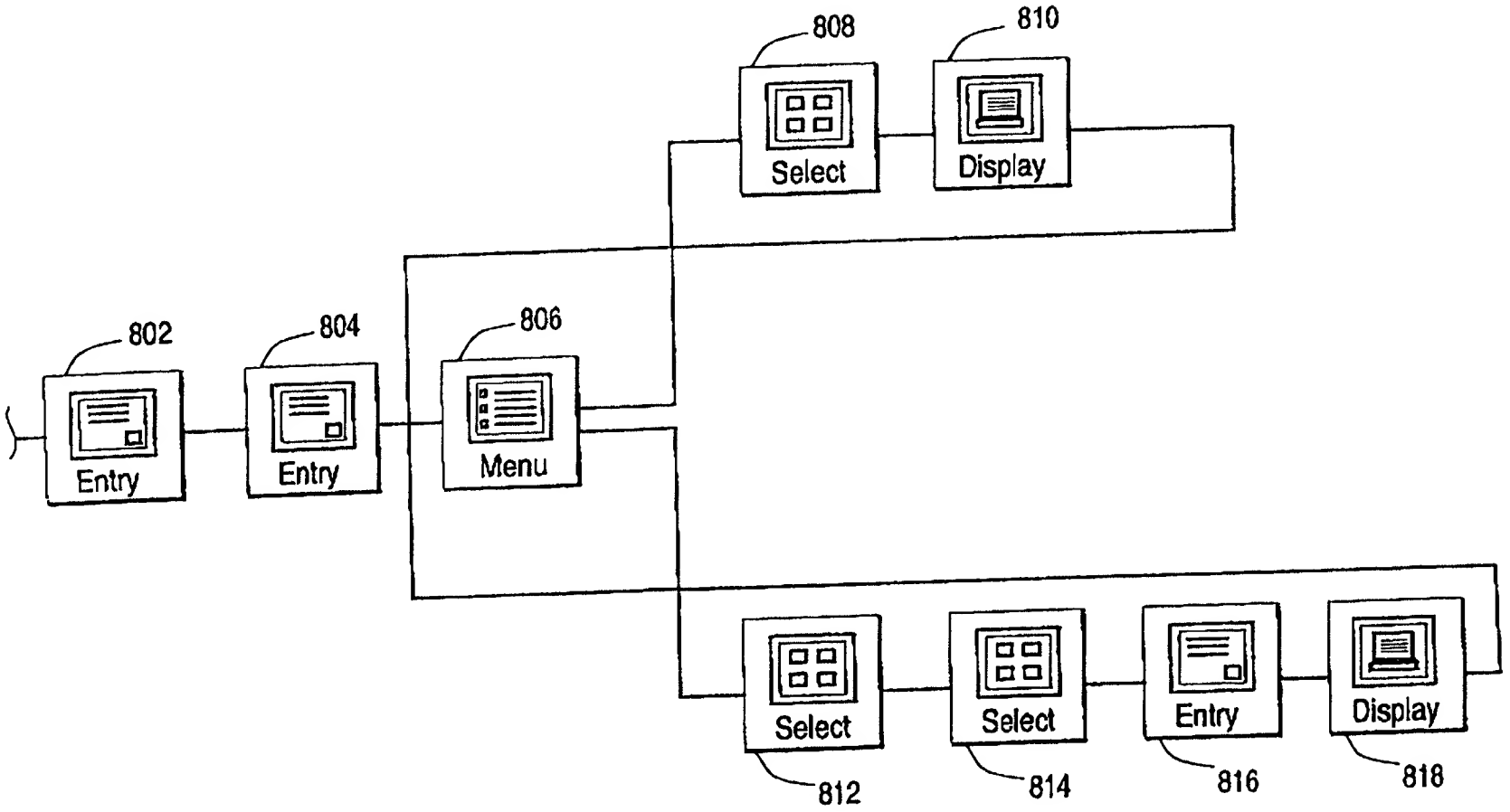


Figure 8 (a )


808
810
Select
Display
802
804
806
Entry
Entry
Menu
Select
Select
Entry
Display
812
814
816
818

```
<?xml version="1.0" encoding="UTF-8" ?>
- <application usecookies="false" id="{F6681A6F-FB7C-4901-855C-08791DDE8DC8}
  securevariables="false">
  <description version="1" name="MQBanking" />
  <outtargets />
  <startform totargetid="UserID" />
  <subapps />
  <errortarget totargetid="UserID" />
- <properties>
    <variable default="209.23.23.23" name="ServerIP" />
  </properties>
  <sessionvariables>
    <variable name="Session" />
  </sessionvariables>
- <forms>
  - <form targetid="UserID" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Password" name="OK" />
      <inputvariables />
    - <outputvariables>
        <variable name="UserID" />
      </outputvariables>
      <events />
    </form>
  - <form targetid="Password" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Main" name="OK" />
    - <inputvariables>
        <variable name="UserID" />
      </inputvariables>
    - <outputvariables>
        <variable name="Session" />
      </outputvariables>
      <events />
    </form>
  - <form targetid="Main" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Account" name="Account Balance" />
      <action totargetid="Bill Payment" name="Bill Payment" />
      <action totargetid="Transfer" name="Account Transfer" />
      <inputvariables />
      <outputvariables />
      <events />
    </form>
  - <form targetid="Account" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Details" name="OK" />
      <inputvariables />
    - <outputvariables>
        <variable name="AccountID" />
      </outputvariables>
```

Figure 8(b)

```
    <events />
  </form>
- <form targetid="Details" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Main" name="OK" />
  - <inputvariables>
      <variable name="AccountID" />
    </inputvariables>
    <outputvariables />
    <events />
  </form>
- <form targetid="Bill Payment" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Bill" name="OK" />
    <inputvariables />
  - <outputvariables>
      <variable name="AccountID" />
    </outputvariables>
    <events />
  </form>
- <form targetid="Bill" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Amount" name="OK" />
  - <inputvariables>
      <variable name="AccountID" />
    </inputvariables>
  - <outputvariables>
      <variable name="BillID" />
      <variable name="AccountID" />
    </outputvariables>
    <events />
  </form>
- <form targetid="Amount" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Confirm" name="OK" />
  - <inputvariables>
      <variable name="BillID" />
      <variable name="AccountID" />
    </inputvariables>
  - <outputvariables>
      <variable name="AccountID" />
      <variable name="BillID" />
      <variable name="Amount" />
    </outputvariables>
    <events />
  </form>
- <form targetid="Confirm" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Main" name="Cancel" />
  - <inputvariables>
      <variable name="AccountID" />
      <variable name="BillID" />
```

Figure 8(c)

```
        <variable name= Amount" />
      </inputvariables>
    - <outputvariables>
        <variable name="AccountID" />
        <variable name="BillID" />
        <variable name="Amount" />
      </outputvariables>
      <events />
    </form>
  </forms>
  <errors />
  <events />
</application>
```

Figure 8(d)

```
- <xml>
  - <dataresults>
      <data name="source1">
      - <RECORDS>
        - <RECORD>
            <Blair PK="1">172-32-1176</Blair>
            <Test1 PK="1">1</Test1>
            <Test2 PK="1">2</Test2>
            <Test3 PK="1">3</Test3>
            <LastName>White</LastName>
            <FirstName>Johnson</FirstName>
          </RECORD>
        - <RECORD>
            <Blair PK="1">213-46-891</Blair>
            <Test1 PK="1">1</Test1>
            <Test2 PK="1">2</Test2>
            <Test3 PK="1">3</Test3>
            <LastName>Green</LastName>
            <FirstName>Marjorie</FirstName>
          </RECORD>
          <RECORD>
            <Blair PK="1">238-95-7766</Blair>
            <Test1 PK="1">1</Test1>
            <Test2 PK="1">2</Test2>
            <Test3 PK="1">3</Test3>
            <LastName>Carson</LastName>
            <FirstName>Cheryl</FirstName>
          </RECORD>
        - <a>
          - <RECORD>
              <Blair PK="1">238-95-7766</Blair>
              <Test1 PK="1">1</Test1>
              <Test2 PK="1">2</Test2>
              <Test3 PK="1">3</Test3>
              <LastName>Carson</LastName>
              <FirstName>Cheryl</FirstName>
            </RECORD>
          </a>
          <a>
          - <b>
              <RECORD>
                <Blair PK="1">238-95-7766</Blair>
                <Test1 PK="1">1</Test1>
                <Test2 PK="1">2</Test2>
                <Test3 PK="1">3</Test3>
                <LastName>Carson</LastName>
                <FirstName>Cheryl</FirstName>
              </RECORD>
            </b>
          </a>
        </RECORDS>
```

Figure 9(a)

```
</data>
- <data name="source2">
  - <RECORDS>
    - <RECORD>
        <Blair PK="1">aaaaaa</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>White</LastName>
        <FirstName>Johnson</FirstName>
      </RECORD>
    - <RECORD>
        <Blair PK="1">bbbbbbb</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Green</LastName>
        <FirstName>Marjorie</FirstName>
      </RECORD>
    - <RECORD>
        <Blair PK="1">ccccccc</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Carson</LastName>
        <FirstName>Cheryl</FirstName>
      </RECORD>
    - <a>
      - <RECORD>
          <Blair PK="1">ddddddd</Blair>
          <Test1 PK="1">1</Test1>
          <Test2 PK="1">2</Test2>
          <Test3 PK="1">3</Test3>
          <LastName>Carson</LastName>
          <FirstName>Cheryl</FirstName>
        </RECORD>
      </a>
    - <a>
      - <b>
        - <RECORD>
            <Blair PK="1">eeeeeeee</Blair>
            <Test1 PK="1">1</Test1>
            <Test2 PK="1">2</Test2>
            <Test3 PK="1">3</Test3>
            <LastName>Carson</LastName>
            <FirstName>Cheryl</FirstName>
          </RECORD>
        </b>
      </a>
    </RECORDS>
  </data>
</dataresults>
```

Figure 9(b)

```
  <actions>
    <action formatstring="" actionid="OK" querystring="?
      _SQRSIGN=A&_SQAPPID={877444A1-8D9E-4248-A664-
      6C483F8B4540}&_ACTIONID=OK&_SQFORMID={8D7B4336-6341-
      4D2C-B2D8-49FE88D1B13A}&EmployeeID=$EmployeeID" />
  </actions>
  <dictionary>
    <variable />
    <variable />
  </dictionary>
</rml>
```

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Figure 9(c)

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl">
- <xsl:template match="/">
  - <wml>
    - <head>
        <meta name="FormType" content="SQSelectForm" />
        <meta name="ListMethod" content="numeric" />
      </head>
    - <card>
        <xsl:attribute name="title">qwe</xsl:attribute>
      - <p>
        - <select>
            <xsl:attribute name="title">qwe</xsl:attribute>
            <xsl:attribute name="name">asd</xsl:attribute>
          - <xsl:for-each select="/rml/dataresults/data
              [@name='source2']//RECORD">
            - <option>
              - <xsl:attribute name="value">
                  <xsl:value-of select="Blair" />
                  z1z
                  <xsl:value-of select="Test1" />
                  z1z
                  <xsl:value-of select="Test2" />
                  z1z
                  <xsl:value-of select="Test3" />
                </xsl:attribute>
              - <xsl:attribute name="title">
                  <xsl:value-of select="LastName" />
                  ,
                  <xsl:value-of select="FirstName" />
                  ,
                  <xsl:value-of select="/rml/data
                    [@name='source1']/RECORDS/RECORD/Blair" />
                </xsl:attribute>
                blah blah blah
              </option>
            </xsl:for-each>
          </select>
        </p>
      - <xsl:for-each select="/rml/actions//action">
        - <do>
            <xsl:attribute name="type">accept</xsl:attribute>
          - <xsl:attribute name="label">
              <xsl:value-of select="@actionid" />
            </xsl:attribute>
          - <go>
            - <xsl:attribute name="href">
                <xsl:value-of select="@querystring" />
              </xsl:attribute>
            </go>
          </do>
        </xsl:for-each>
      </card>
```

Figure 10(a)

```
</wml>
</xsl:template>
</xsl:stylesheet>
```



Figure 10(b)

```
<wml>
  <head>
    <meta name="FormType" content="SQSelectForm" />
    <meta name="ListMethod" content="numeric" />
  </head>
- <card title="Select Account">
  - <p>
    - <select title="Select Account" name="HoldingsAccountID">
        <option value="1" title="Acct 10314">Acct 10314</option>
        <option value="2" title="Acct 11345">Acct 11345</option>
      </select>
      <br />
    </p>
  - <do type="accept" label="OK">
      <go href="?_SQRSIGN=A&_SQAPPID={8D360BDF-E570-45E9-BEC1-
        4E5DD949C5C0}&_ACTIONID=OK&_SQFORMID={BCC091A1-63D4-
        11D3-9E34-0090273EFC3B}
        &HoldingsAccountID=$(HoldingsAccountID)
        &UserID=246531&Session=1" />
    </do>
  </card>
</wml>
```

Figure 11

PATENT APPLICATION
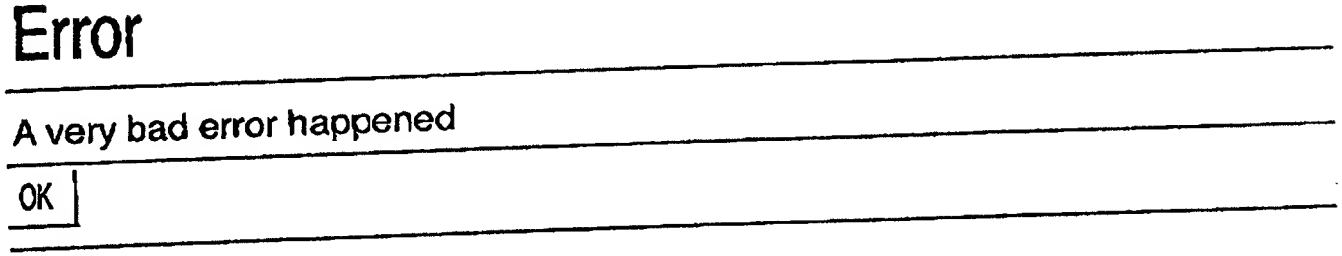
Figure 12